

Receiving Report

Date: 16-11-15

Batch No: 1360142

Supplier: Aviall

Dart P/O: 34014

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☒ No ☐
 Receipt: Cash ☐ Cr ☒
 New Supplier Yes ☐ No ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐
 Waybill Attached: Yes ☒ No ☐
 Shipment Complete: Yes ☒ No ☐ N/A ☒
 QC18 Inspection ☐ N/A ☒
 Work Order ☐ N/A ☒

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number

Initials of Receiver

QC12

[Signature]

Production/Admin:

Date

Received/Costing

Initial

Location



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

Purchase Order ID PO34014

Purchase Order Date 10/20/2016
PO Print Date 10/20/2016

Page Number 1 of 6

Order From:

AVIALL
PO BOX 842275

DALLAS, TX 75284-2275
USA

VU-AVI003

Ship To: DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED

OCT 21 2016

Contact Name
Vendor Phone

905-676-1695

Ship To Contact
Ship To Phone
Ship Via:
Ship Acct:

FedEx Overnight collect

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

EXW - (Ex Works)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	600.0991 ✓	Magnabond 6398 Part B Size 112 ml	10/26/2016 Yes 10/26/2016	FN	12.00 Each ✓	\$30.13	\$361.56 ✓
Line Total:							\$361.56
2	600.0990 ✓	Magnabond 6398 Part A Size 112 ml	10/26/2016 Yes 10/26/2016	FN	12.00 Each ✓	\$30.13	\$361.56
Line Total:							\$361.56
3	AN3-37A ✓ over 005	Bolt	10/26/2016 Yes 10/26/2016	FN	30.00 Each ✓	\$0.50	\$15.00 ✓

SP/6-11-15

SP/6-10-24

PO Instructions: Fedex Acc#151793240

Note:

10/20/2016



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO34014

Purchase Order Date 10/20/2016
PO Print Date 10/20/2016

Page Number 6 of 6

Order From:
AVIALL
PO BOX 842275

DALLAS, TX 75284-2275
USA

VU-AVI003

Ship To: DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone

905-676-1695

Ship To Contact

Ship To Phone

Ship Via:

Ship Acct:

FedEx Overnight collect

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

USD

EXW - (Ex Works)

16 71401-45

procurement quality clauses

10/26/2016

No

10/26/2016

1.00

\$0.00

\$0.00

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A012 CHEMICAL AND PHYSICAL TEST REPORTS

A015 SHELF LIFE CONTROLLED MATERIAL; 60% SHELF
LIFE REQUIRED ACCEPTABLE

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT

A033 STATEMENT OF CONFORMITY/TEST RECORDS
FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A043 RETENTION OF QUALITY DOCUMENT

SP/6-11-15

Line Total:

\$0.00

PO Total:

\$5,366.68

PO Instructions: Fedex Acc#151793240

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr:

Change Date: 10/20/2016



A BOEING COMPANY

PACKING LIST



DELIVERY NUMBER: 8003801040

ROUTE: US FedEx International Priority

PAGE:1 of 1

DATE:14NOV16

TIME:09:53:28

EMP:00000000

ORD TYP: ZOR 169

CURRENCY:USD

TERMS:Net 30

CUSTOMER PO:PO34014
ORDER NUMBER:1002570311
ORDER DATE:21OCT16

B 10003952
I DART AEROSPACE LTD
L 1270 ABERDEEN STREET
L HAWKESBURY ON K6A 1K7
T CANADA
O

S 10003952
H DART AEROSPACE LTD
I 1270 ABERDEEN STREET
P HAWKESBURY ON K6A 1K7
T CANADA
O

S 1000
H AVIALL CENTRAL WAREHOUSE
I DALLAS CDC
P 2750 REGENT BLVD
FROM DFW AIRPORT TX 75261
USA

LINE	PO LINE	MFG	ITEM DESCRIPTION	ORDER QUANTITY	SHIP QUANTITY	QUANTITY BACK ORDER	UOM		CUSTOMER PRICE	EXTENDED CUSTOMER PRICE
00010	0	33	MAGNOBOND6398 ADHESIVE: EPOXY,A/B,112ML BATCH 7364405623 Exp Date: 01OCT17	12	12	0	CQ		60.26	723.12

DAS
26
9-89

NOV 15 2016
NOV 15 2016

This is not an Invoice.
For payment processing, please refer to Invoice.

The recipient of these goods agrees to comply with all export regulations governing the transfer, sale, lease, or use of these goods.
Diversion contrary to U.S. Law is prohibited.

CERTIFICATE OF CONFORMANCE

It is hereby certified that Aviall Services, Inc., is an approved distributor and meets all requirements of ISO9001, AS9100, AS9120 and AC 00-56 at 2750 Regent Blvd. DFW Airport, Texas. The products, articles or parts referenced on this document are in new or overhauled condition and were purchased from an approved source (FAA, EASA, TCCA, Mil Spec or Commercial). The Original Manufacturers' Certifications are maintained on file at our central office location, and copies are available upon request or at Aviall.com. For overhauled or repaired products, articles or parts, the original FAA 8130-3 / EASA Form 1 (Return to Service) or Yellow Tag, from the FAA/JAA/EASA approved Air Agency are attached to the component.

JR Hofmann, Director, Global Quality

14NOV16
Date

DISCOUNT TERMS APPLY ONLY TO SUB TOTAL. ALL
RETURNED MERCHANDISE SUBJECT TO HANDLING
FEE.

THIS IS TO CERTIFY THAT AVIALL HAS COMPLIED WITH
THE PROVISIONS OF THE FAIR LABOR ACT OF 1938
AMENDED.

CUSTOMER COPY



A BOEING COMPANY

Commercial Invoice

AVIALL SERVICES INC
2750 REGENT BLVD
DFW AIRPORT TX 75261

Tracking Number	703410339719	Government Transaction Number	NOEEI FTR 30.36
Ship From	LU_US_1000	Delivery Number	8003801040
AVIALL CENTRAL WAREHOUSE 2750 REGENT BLVD. DFW AIRPORT TX 75261		Commercial Invoice Number	9304697810
		Ship Date	14 November, 2016
		Incoterms	EXW Shipping Point

Sold To	10003952	Ultimate Consignee	10003952	Ship To	10003952	Freight Forwarder	400010
DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY ON K6A 1K7 CANADA		DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY ON K6A 1K7 CANADA		DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY ON K6A 1K7 CANADA		FEDEX FEDEX NATIONAL LTL INC PO BOX 94515 PALATINE IL 60094-4515	
						Tax Number: 20-4734803	

Comments:

Item	Part Number & Description	Country of Origin	Quantity	UOM	Unit Value USD	Extended Value USD
10	MAGN0B0ND6398 - ADHESIVE: EPOXY,A/B,112ML Export Tariff: 3506100000 Export Classification: EAR99 Authorization: NLRAT_NOV_2016 Sales Order: 1002570311 PO: PO34014 Batch Number: 7364405623	US	12	CQ	60.26	723.12

NOV 15 2016


L DAS
26
9-9-89

Gross Value	723.12
Add on Charges	
Tax Value	
Freight Charges	
Total Net Value	723.12

FOR CUSTOMS PURPOSES ONLY
NOT A BILLING INVOICE


These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US laws is prohibited.

SHIPPER'S DECLARATION FOR DANGEROUS GOODS

Shipper AVIALL SERVICES INC 2750 REGENT BLVD DFW AIRPORT, TX, 75261 U.S.A.		Air Waybill No. Page 1 of 1 Pages <hr/> Shipper's Reference Number 8003801040 <small>(optional)</small>			
Consignee DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY, ON, K6A 1K7 Canada		<div style="text-align: center;">  LABELMASTER SOFTWARE </div> <div style="text-align: right; font-size: small;"> Created using International Air regulations and FedEx carrier variations. </div>			
Two completed and signed copies of this declaration must be handed to the operator.		WARNING Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.			
<div style="border: 1px solid black; padding: 5px;"> TRANSPORT DETAILS This shipment is within the limitations prescribed for: <i>(delete non-applicable)</i> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 50%; padding: 2px;"> PASSENGER AND CARGO AIRCRAFT </td> <td style="width: 50%; padding: 2px;"> CARGO AIRCRAFT ONLY </td> </tr> </table> </div>		PASSENGER AND CARGO AIRCRAFT	CARGO AIRCRAFT ONLY	Airport of Departure:	
PASSENGER AND CARGO AIRCRAFT	CARGO AIRCRAFT ONLY				
Airport of Destination:		Shipment type: (delete non-applicable) NON-RADIOACTIVE XXXXXXXXXX			

NATURE AND QUANTITY OF DANGEROUS GOODS						
Dangerous Goods Identification						
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Risk)	Pack- ing Group	Quantity and type of packing	Packing Inst.	Authorization
UN3267	Corrosive liquid, basic, organic, n.o.s. (aminoethyl piperazine)	8 /	III	1 Fibreboard Box x 1.44 L	852	

Additional Handling Information Emergency Contact Name: CCN2132 . 24 hr. Emergency Contact Tel. No. 1-800-424-9300 // INTL +1-703-527-3887

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. I declare that all of the applicable air transport requirements have been met.	Name/Title of signatory <div style="text-align: right; font-size: small;"> David Dirickson Hazardous Shipper </div> Place and Date Dallas Tx, 75261 11/14/2016 Signature <small>(see warning above)</small> 
---	--



4360 Northeast Expressway
Atlanta, GA 30340

Certificate Of Compliance

Packing Slip	ORD17824
Document Date	8/11/2016
Page	1

Bill To:

AVIALL SERVICES, INC.
P.O. BOX 619048
DALLAS TX 75261-9048

Ship To:

AVIALL SERVICES, INC.
AVIALL CENTRAL WAREHOUSE, DALLAS CDC
2750 REGENT BLVD.
DFW AIRPORT TX 75261-9048

(972) 586-1314 Ext. 0000

* Item Shipped Directly from Vendor

Purchase Order No.	Customer ID	Salesperson ID	Shipping Method	Payment Terms	Order Placed By	Ship Date
45496762	AVIAL001	INSIDE SALES	FED EX GRND COL	NET 30 DAYS	HEATHER FORDE	11/8/2016
Ordered	Shipped	B/O	Item Number	Description	Site	UOM
100	100	0	6398-AB/112ML	MAGNOLIA 6398- AB, 112ML, 2.5:1, TUBE KIT LOT# 16J11/16J11	4360	EA

ITEM MAGN0BOND6398=33



BATCH 7364405623



GRIVAS
11/10/16

Instructions:

DO NOT MIX LOT #S

M.S.D.S. REQUIRED / DATE OF MFG:09/2016

SPEC# 299-947-100, REV P, T-II, CL-2 / SHELF LIFE: 18 MOS

FROM D.O.M. @ BELOW 40°F OR 12 MOS FROM D.O.M. @ 40-100°F

SPEC# 299-947-359, REV A, T-I / SHLF LIFE: 06 MOS FROM S.D.@

BTWN 80-100°F/09 MOS @ BTWN 60-80°F/12 MOS @ BELOW 40°F

EXPIRATION DATE: (299-947-100): 03/2018 OR 09/2017

EXPIRATION DATE: (299-947-359): 05/08/17 OR 08/08/17 OR 11/08/17

Magnolia Advanced Materials, Inc.

Signed:

Greg Bunn
Technical Director

We certify that the above listed material meets the sales specifications as outlined by the manufacturing procedures of Magnolia Advanced Materials, Inc. and the above listed specification.

The materials process and formulation(s) have not been changed in any way from the original qualified material(s) without prior approval.

Unless otherwise indicated, the country of origin is the USA.

Shelf life certified and applicable on unopened, properly stored containers.



Certificate Of Compliance

4360 Northeast Expressway
Atlanta, GA 30340

Packing Slip	ORD17824
Document Date	8/11/2016
Page	1

Bill To:

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Issuing Date 08-Oct-2015

Revision date 06-Nov-2015

Revision Number 5

1. IDENTIFICATION

Product Identifier

Product name Magnobond 6398-A

Other means of identification

Product Code(s) 6398-A
Synonyms Magnolia 6398-A

Recommended use of the chemical and restrictions on use

Recommended Use This product contains epoxy constituents that have an average molecular weight of less than or equal to 700.

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address
Magnolia Advanced Materials
4360 NE Expressway
Atlanta, GA 30344

Emergency telephone number

Company Phone Number (770) 451-2777
Emergency telephone number INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)
Account 79439

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitization

Category 1

Label elements

Emergency Overview

WARNING

Hazard statements

May cause an allergic skin reaction



Appearance Gray

Physical state Paste/Gel

Odor Slight ethereal

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing must not be allowed out of the workplace
Wear protective gloves

IF ON SKIN: Wash with plenty of water and soap
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

Causes mild skin irritation Harmful to aquatic life with long lasting effects Harmful to aquatic life

Unknown acute toxicity 55.2 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS**Substance**

Not applicable

Mixture**Synonyms**

Magnolia 6398-A.

Chemical Name	CAS-No	Weight %	Trade secret
Trade secret	Proprietary	30-60	*
Aluminum	7429-90-5	25-50	*
Epoxy resin	Proprietary	5-15	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES**Description of first aid measures****General advice**

Remove from exposure, lie down. If symptoms persist, call a physician. Do not get in eyes, on skin, or on clothing. MAY CAUSE ALLERGIC SKIN REACTION.

Eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately if symptoms occur.

Skin contact

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Inhalation

Remove from exposure, lie down. If symptoms persist, call a physician.

Ingestion

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Get medical advice/attention.

Self-protection of the first aider

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**Water spray, carbon dioxide (CO₂), dry chemical, alcohol-resistant foam.**Specific hazards arising from the chemical**

No information available.

Explosion data**Sensitivity to Mechanical Impact** None.**Sensitivity to Static Discharge** None.**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures****Personal precautions**

Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

Other Information

Ventilate the area.

Environmental precautions**Environmental precautions**

Do not allow material to contaminate ground water system. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Methods and material for containment and cleaning up**Methods for containment**

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE**Precautions for safe handling****Advice on safe handling**

Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. In case of insufficient ventilation, wear suitable respiratory equipment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Conditions for safe storage, including any incompatibilities**Storage Conditions**

Keep away from open flames, hot surfaces and sources of ignition. Keep tightly closed in a dry and cool place.

Incompatible Products

None known based on information supplied.

8. Exposure Controls/Personal Protection**Control parameters****Exposure Limits**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Aluminum	TWA: 1 mg/m ³	TWA: 15 mg/m ³	TWA: 10 mg/m ³
7429-90-5		TWA: 5 mg/m ³	TWA: 5 mg/m ³

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection No special protective equipment required.

Skin and body protection No information available.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations Wash hands before breaks and after work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Paste/Gel		
Appearance	Gray	Odor	Slight ethereal
Color	No information available	Odor threshold	No information available
<u>Property</u>	<u>Values</u>	<u>Remarks/ • Method</u>	
PH	No information available		
Melting point / freezing point	No information available		
Boiling Point/Range	107.3 °C 225 °F		
Flash point	> 93.4 °C / > 200 °F		
Evaporation Rate	No information available		
Flammability (solid, gas)	No information available		
Flammability Limit in Air			
Upper Flammability Limit	No information available		
Lower Flammability Limit	No information available		
Vapor pressure	No information available		
Vapor density	No information available		
Relative Density	1.25		
Water solubility	Negligible		
Solubility in other solvents	No information available		
Partition coefficient: n-octanol/water	No information available		
Autolgnition temperature	No information available		
Decomposition temperature	No information available		
Kinematic viscosity	No information available		
Dynamic viscosity	No information available		
Explosive properties	No information available		
Oxidizing properties	No information available		

Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content	Negligible
Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

None known based on information supplied.

Hazardous decomposition products

Carbon oxides. Phenols. Aromatic hydrocarbons.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information**

The product has not been tested

Inhalation

There is no data available for this product.

Eye contact

There is no data available for this product.

Skin contact

There is no data available for this product.

Ingestion

There is no data available for this product.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Epoxy resin	= 11400 mg/kg (Rat)	-	-

Information on toxicological effects**Symptoms**

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Sensitization**

No information available.

MUTAGENIC EFFECTS

No information available.

Carcinogenicity

No information available.

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Aspiration hazard

No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)

63,840.00 mg/kg

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Harmful to aquatic life with long lasting effects

46.4 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONSWaste treatment methods

Waste Disposal Method Dispose of in accordance with local regulations.

Contaminated packaging Do not reuse container.

Chemical Name	California Hazardous Waste Status
Aluminum 7429-90-5	Ignitable (powder)

14. TRANSPORT INFORMATION

DOT Not regulated

ICAO

UN-No 3082
Hazard Class 9
Packing group III

IATA

UN-No 3082
Proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)
Hazard Class 9
Packing group III

IMDG/IMO

UN-No 3082
Proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)
Hazard Class 9
Packing group III
EmS No. F-A, S-F

RID

UN-No 3082
Hazard Class 9
Packing group III
Classification code M6

ADR

UN-No 3082
Hazard Class 9
Packing group III
Classification code M6

15. REGULATORY INFORMATIONInternational Inventories

TSCA Complies
DSL/NDL Complies
EINECS/ELINCS Complies
ENCS Does not comply
IECSC Complies
KECL Complies

PICCS
AICS

Does not comply
Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Aluminum 7429-90-5	X	X	X

U.S. EPA Label Information

EPA Pesticide registration number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health hazard 2	Flammability 1	Instability 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health hazard 2	Flammability 1	Physical hazards 0	Personal precautions B

Prepared by Magnolia Advanced Materials, Inc.
4360 NE Expressway.
Atlanta, GA 30340
Issuing Date 08-Oct-2015
Revision date 06-Nov-2015
Revision note
No information available

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The Information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of MSDS



Safety Data Sheet

Issuing Date 06-Nov-2015

Revision date 06-Nov-2015

Revision Number 3

1. IDENTIFICATION

Product identifier

Product name Magnobond 6398-B

Other means of identification

Product Code(s) 6398-B

UN-No 3267

Synonyms Magnolia 6398-B

Recommended use of the chemical and restrictions on use

Recommended Use Amine curing agent.

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address

Magnolia Advanced Materials
4360 NE Expressway
Atlanta, GA 30344

Emergency telephone number

Company Phone Number (770) 451-2777
Emergency telephone number INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)
Account 79439

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1B

Label elements

Emergency Overview

DANGER

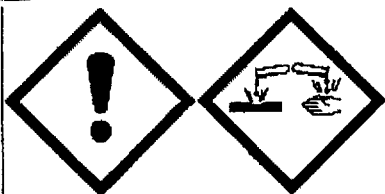
Hazard statements

HARMFUL IF SWALLOWED

Harmful in contact with skin

Causes severe skin burns and eye damage

May cause an allergic skin reaction

**Appearance** Off-white to amber**Physical state** Paste/Gel**Odor** Amine**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Do not breathe dusts or mists
 Wear protective gloves/protective clothing/eye protection/face protection
 Contaminated work clothing must not be allowed out of the workplace

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor
 Specific treatment (see ? on this label)
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 Immediately call a POISON CENTER or doctor
 Call a POISON CENTER or doctor if you feel unwell
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower
 If skin irritation or rash occurs: Get medical advice/attention
 Wash contaminated clothing before reuse
 IF INHALED: Remove person to fresh air and keep comfortable for breathing
 Immediately call a POISON CENTER or doctor
 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
 Rinse mouth
 Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

Harmful to aquatic life with long lasting effects Harmful to aquatic life

Unknown acute toxicity

0.002 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS**Substance**

Not applicable

Mixture**Synonyms**

Magnolia 6398-B.

Formula

Not Applicable-Mixture

Chemical Name	CAS-No	Weight %	Trade secret
Amine curing agent	Proprietary	30-60	*
Amine curing agent	Proprietary	15-40	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General advice	Remove from exposure, lie down. If symptoms persist, call a physician. Do not get in eyes, on skin, or on clothing. MAY CAUSE ALLERGIC SKIN REACTION.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately if symptoms occur.
Skin contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Inhalation	Remove from exposure, lie down. If symptoms persist, call a physician.
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Get medical advice/attention.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

Other Information Ventilate the area.

Environmental precautions

Environmental precautions Do not allow material to contaminate ground water system. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE**Precautions for safe handling****Advice on safe handling**

Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. In case of insufficient ventilation, wear suitable respiratory equipment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Conditions for safe storage, including any incompatibilities**Storage Conditions**

Keep away from open flames, hot surfaces and sources of ignition. Keep tightly closed in a dry and cool place.

Incompatible Products

None known based on information supplied.

8. Exposure Controls/Personal Protection**Control parameters****Exposure Limits**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls**Engineering Controls**

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Safety glasses with side-shields.

Skin and body protection

Protective gloves.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations

Wash hands before breaks and after work.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical state	Paste/Gel	Odor	Amine
Appearance	Off-white to amber	Odor threshold	No information available
Color	No information available		
Property	Values	Remarks/ • Method	
PH	No information available		
Melting point / freezing point	No information available		
Boiling Point/Range	107.3 °C 225 °F		
Flash point	> 93.4 °C / > 200 °F		
Evaporation Rate	No information available		
Flammability (solid, gas)	No information available		
Flammability Limit in Air			
Upper Flammability Limit	No information available		
Lower Flammability Limit	No information available		
Vapor pressure	No information available		
Vapor density	No information available		
Relative Density	1.0		

Water solubility	Negligible
Solubility in other solvents	No information available
Partition coefficient: n-octanol/water	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available

Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content	Negligible
Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY**Reactivity**

No data available

Chemical stability

Stable under recommended storage conditions. Hygroscopic.

Possibility of hazardous reactions

None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

None known based on information supplied.

Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx). Hydrogen cyanide. Ammonia. Hazardous decomposition products formed under fire conditions.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Product Information	The product has not been tested
Inhalation	There is no data available for this product.
Eye contact	There is no data available for this product.
Skin contact	There is no data available for this product.
Ingestion	There is no data available for this product.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Amine curing agent	= 2140 µL/kg (Rat)	= 880 µL/kg (Rabbit)	-
Amine curing agent	= 4290 µL/kg (Rat) = 4290 mg/kg (Rat)	= 2500 µL/kg (Rabbit)	-

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No information available.
MUTAGENIC EFFECTS	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	944.00 mg/kg
ATEmix (dermal)	1,490.00 mg/kg

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Harmful to aquatic life with long lasting effects

54.168 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Amine curing agent	495: 72 h Pseudokirchneriella subcapitata mg/L EC50	1000: 96 h Poecilia reticulata mg/L LC50 semi-static 100: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 1950 - 2460: 96 h Pimephales promelas mg/L LC50 flow-through	= 32 mg/L EC50 32: 48 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Chemical Name	Log Pow
Amine curing agent	-1.48

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

Waste Disposal Method	Dispose of contents/container in accordance with local regulation.
Contaminated packaging	Do not reuse container.

14. TRANSPORT INFORMATION**DOT**

UN-No	3267
Hazard Class	8 (Corrosive)
Packing group	III

ICAO

UN-No	3267
Hazard Class	8 (Corrosive)
Packing group	III

IATA

UN-No	3267
Proper shipping name	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (AMINOETHYLPIPERAZINE SOLUTION)
Hazard Class	8 (Corrosive)
Packing group	III
Description	A3

IMDG/IMO

UN-No	3267
Proper shipping name	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (AMINOETHYLPIPERAZINE SOLUTION)
Hazard Class	8 (Corrosive)
Packing group	III
EmS No.	F-A, S-B

RID

UN-No	3267
Hazard Class	8 (Corrosive)
Packing group	III
Classification code	C7

ADR

UN-No	3267
Hazard Class	8
Packing group	III
Classification code	C7
ADR/RID-Labels	8

15. REGULATORY INFORMATION**International Inventories**

TSCA	Complies
DSL/NDL	Complies
EINECS/ELINCS	Complies
ENCS	Does not comply
IECSC	Complies
KECL	Does not comply
PICCS	Complies
AICS	Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard

No

Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Amine curing agent	X	X	X

U.S. EPA Label Information

EPA Pesticide registration number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA	Health hazard 3	Flammability 1	Instability 0	Physical and Chemical Hazards -
HMIS	Health hazard 3	Flammability 1	Physical hazards 0	Personal precautions B

Prepared by Magnolia Advanced Materials, Inc.
4360 NE Expressway.
Atlanta, GA 30340

Issuing Date 06-Nov-2015

Revision date 06-Nov-2015

Revision note

No information available

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End of MSDS